SHUSAKU YAMAMOTO



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(84) Designated contracting states:

(71) Applicant: ASAHI BREWERIES LTD TORII YAKUHIN KK

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YUKI TOSHIFUMI OKUMURA YASUSHI SHIBUYA ICHIRO

(74) Representative:

(54) MODIFIED AGARIAN MAIN ALLERGEN AND ITS PRODUCTION

(57) Abstract:

PURPOSE: To obtain the subject allergen useful as the therapeutic agent for allergic diseases caused by acarian allergen by employing a gene coding a modified Der-fill produced by substituting a specific amino acid residue of an acarian main allergen Der-fill with alanine.

CONSTITUTION: A procaryote or eucaryote is transformed with a replicated vector containing a gene coding a modified Der-fil, and subsequently cultured. A modified acarian main allergen is collected from the culture product. The modified acarian main allergen lowers the IgE antibody-binding activity, and inhibits wild type Der-fil binding to the IgE antibody. The modified Der fil is produced by substituting alanine for one of the No.4, 8, 7, 10, 11, 12, and 127 amino acids of acarian main allergen Der-fil A gene coding the acarian main allergen Der-fil has a DNA sequence of the formula, etc.

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I Amp Gin Pm) lop Yel lye Aco Eye lie Amp Amp Giu lie Lye Lym Yel I GAY GAL GTG BAT GTT LEE GAT TOT DEC 1AC RAT GAL ATG ALA ALA GTA

118 Asp Ass Bly Tel Cot Ale Cra Ale Its Alb Thr Bis Aim Lya lis Ark 887 GAT AAT OGT 012 116 GCT TGC GGT ATT GCT ACC CAT GCT ARA ATC CGT

129 Asp 6++ 885 GUT TAA

SHUSAKU YAMAMOTO





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HIRAI MITSUO

(74) Representative:

(54) MODIFIED MAJOR MITE **ALLERGEN AND ITS** PRODUCTION

(57) Abstract:

PURPOSE: To obtain a new allergen useful as a therapeutic agent for allergio diseases due to mite allergens.

CONSTITUTION: This modified allergen is obtained by substituting cysteine residue in a major mite allergen Der fil with serine residue according to the genetic engineering. The gene capable of coding the major mite allergen Der fil has a DNA sequence expressed by the formula, etc., and is obtained from a oulture prepared by culturing a procaryote or a eucaryote transformed with a replication vector containing a gene capable of coding the modified Der fil in which the cysteine residue in the major mite allergen Der fil is substituted with the serine residue.

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1 Asp Gin Val Asp Val Lys Asp Cys Aig Asp Asp Glu lie Lys Lys Val 1 GAT CAA GTC GAT GTT AAA GAT TOT GCC AAC AAT CAA ATC AAA AAA GTA

17 Het Val Asp Gly Cys His Gly Ser Asp Pro Cys Ile lie His Arg Gly 49 ATG GTC GAI GGT TGC CAI GGT TCT GAT CCA TGC ATC ATC CAT CGT GGT

Sh Lys Pro Phe The Leu Giu Ala Leu Phe Asp Ala Asu Giu Asu Thr Lys 97 AAA CEA TTC AUT TTG GAA GCC TTA TTC GAT ECC AAC CAA AAC ACT AAA

49 Thr Ala Lys He Giu ils Lys Ala Ser Leu Asp Gly Leu Glu ile Asp 145 ACC GCT ANA ATT GAN ATC ANA GCC AGC CTC GAT GGT CTT GAN ATT GAT

65 Yal Fro Gly lie Asp Thr Asp Ala Cys His Phe Met Lys Cys Pro Len 193 GTT CCC GGT ATC GAT ACC AAT GCT TGC CAT TIT ATG AAA TGT CCA TTG

81 Val Lys Gly Gla Gla Tyr Asp Ale Lys Tyr Tar Trp Asa Val Pro Lys 241 GTY AAA GGT CAA CAA TAT GAT GCC AAA TAT ACA TGG AAT GTG CCG AAA

97 lie Ala Pro Lya Ser Glu Asn Yal Val Val Thr Val Lya Leu Val Gly 289 ATT GCA CCA AAA TOT GAA AAC GTT GTC GTT ACA GTC AAA CIT GTT GGT.

113 Asp Asn Gly Val Leu Ala Cys Ala lie Ala Thr His Ala Lys lie Arg 337 GAT AAT GGT GTT TTG GCT TGC GCT ATT GCT ACC CAC CCT AAA ATC CCT

129 Asp *** 886 GAT TAA